

HF4510H_A9

Material Safety Data Sheet INTERCRYL 451 FIRE-RETARDANT WHITE



Bulk Sales Reference No.:
MSDS Revision Date:
MSDS Revision Number:

Sales
Order: {SalesOrd}
HF4510H
08/25/2013
A9-1

1. Identification of the preparation and company

1.1. Product identifier

Product Identity INTERCRYL 451 FIRE-RETARDANT WHITE
Bulk Sales Reference No. HF4510H

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended Use See Technical Data Sheet.
Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name International Paint LLC
6001 Antoine Drive
Houston, Texas 77091

Emergency

CHEMTREC (USA) (800) 424-9300
International Paint (713) 682-1711
Poison Control Center (800) 854-6813
Customer Service
International Paint (800) 589-1267
Fax No. (800) 631-7481

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Aquatic Acute 2;H401 Toxic to aquatic life.
Aquatic Chronic 3;H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Using the Toxicity Data listed in section 11 & 12 the product is labelled as follows.

H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

P273 Avoid release to the environment.
P501 Dispose of contents / container in accordance with local / national regulations.

HMIS Rating Health: 2 Flammability: 1 Reactivity: 0

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
	10 – 25	----	[1][2]

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Titanium dioxide CAS Number: 0013463-67-7			
Aluminum hydroxide CAS Number: 0021645-51-2	1.0 – 10	Eye Irrit. 2;H319 STOT SE 3;H335	[1]
1,2-Propylene glycol CAS Number: 0000057-55-6	1.0 – 10	-----	[1]
Hexabromocyclododecane CAS Number: 0003194-55-6	1.0 – 10	-----	[1]
2,2,4-Trimethylpentane-1,3-diol monoisobutyrate CAS Number: 0025265-77-4	1.0 – 10	-----	[1]
Silica, amorphous CAS Number: 0007631-86-9	1.0 – 10	-----	[1][2]
Triphenyl phosphate CAS Number: 0000115-86-6	0.10 – 1.0	Aquatic Chronic 1;H410 Aquatic Acute 1;H400	[1][2]
Nitrous acid, sodium salt CAS Number: 0007632-00-0	0.10 – 1.0	Ox. Sol. 3;H272 Acute Tox. 3;H301 Aquatic Acute 1;H400	[1]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General	Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean or destroy contaminated shoes.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Eyes	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin	In case of contact, immediately flush skin with soap and plenty of water. Get medical attention immediately.
Ingestion	If swallowed, immediately contact Poison Control Center at 1-800-854-6813. DO NOT induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Overview	NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Avoid contact with eyes, skin and clothing.
Inhalation	Harmful if inhaled. Causes nose and throat irritation. Vapors may affect the brain or nervous system causing dizziness, headache or nausea.
Eyes	Causes severe eye irritation. Avoid contact with eyes.
Skin	Causes skin irritation. May be harmful if absorbed through the skin.
Ingestion	Harmful if swallowed. May cause abdominal pain, nausea, vomiting, diarrhea, or drowsiness.
Chronic effects	Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 2 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure.

5. Fire-fighting measures

5.1. Extinguishing media

SMALL FIRES: Use dry chemical, CO₂, water spray or foam. LARGE FIRES: Use water spray, fog, or foam. Move containers from fire area if you can do so without risk. Runoff from fire control may cause pollution. Dike fire control water for later disposal. Do not scatter the material.

5.2. Special hazards arising from the substance or mixture

Material may burn but does not ignite readily. Fire may produce irritating, corrosive and/or toxic gases.

Containers may explode when heated.

5.3. Advice for fire-fighters

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water courses.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

ELIMINATE ALL IGNITION SOURCES (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers. LARGE SPILLS: Dike far ahead of liquid spill to contain released material and runoff from fire control.

6.2. Environmental precautions

Do not allow spills to enter drains or watercourses.

6.3. Methods and material for containment and cleaning up

CALL CHEMTREC at (800)-424-9300 for emergency response. Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

7. Handling and storage

7.1. Precautions for safe handling

Handling

Vapors may cause flash fire or ignite explosively.

In Storage

Keep away from heat, sparks and flame.

7.2. Conditions for safe storage, including any incompatibilities

Store between 40-100F (4-38C).

Avoid contact with eyes and clothing. Avoid prolonged or repeated contact with skin.

Strong oxidizing agents.

Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone.

7.3. Specific end use(s)

Close container after each use.

Wash thoroughly after handling.

Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.

8. Exposure controls and personal protection

8.1. Control parameters

		Exposure	
CAS No.	Ingredient	Source	Value
0000057-55-6	1,2-Propylene glycol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	10 mg/m3 TWA (for assessing the visibility in a work environment where 1,2-Propylene glycol aer
		Mexico	No Established Limit
		Brazil	No Established Limit
0000115-86-6	Triphenyl phosphite	OSHA	3 mg/m3 TWA
		ACGIH	3 mg/m3 TWA
		NIOSH	3 mg/m3 TWA 1000 mg/m3 IDLH

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		Supplier	No Established Limit
		OHSA, CAN	3 mg/m3 TWA
		Mexico	3 mg/m3 TWA LMPE-PPT6 mg/m3 STEL [LMPE-CT]
		Brazil	No Established Limit
0003194-55-6	Hexabromocyclododecane	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
0007631-86-9	Silica, amorphous	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	6 mg/m3 TWA3000 mg/m3 IDLH
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
0007632-00-0	Nitrous acid, sodium salt	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
0013463-67-7	Titanium dioxide	OSHA	15 mg/m3 TWA (total dust)
		ACGIH	10 mg/m3 TWA
		NIOSH	5000 mg/m3 IDLH
		Supplier	No Established Limit
		OHSA, CAN	10 mg/m3 TWA
		Mexico	10 mg/m3 TWA LMPE-PPT (as Ti)20 mg/m3 STEL [LMPE-CT] (as Ti)
		Brazil	No Established Limit
0021645-51-2	Aluminum hydroxide	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
0025265-77-4	2,2,4-Trimethylpentane-1,3-diol monoisobutyrate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit

Health Data

CAS No.	Ingredient	Source	Value
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0000057-55-6	1,2-Propylene glycol	NIOSH	No Established Limit
0000115-86-6	Triphenyl phosphate	NIOSH	Neurotoxicity in animals
0003194-55-6	Hexabromocyclododecane	NIOSH	No Established Limit
0007631-86-9	Silica, amorphous	NIOSH	No Established Limit
0007632-00-0	Nitrous acid, sodium salt	NIOSH	No Established Limit
0013463-67-7	Titanium dioxide	NIOSH	Lung tumors in animals
0021645-51-2	Aluminum hydroxide	NIOSH	No Established Limit
0025265-77-4	2,2,4-Trimethylpentane-1,3-diol monoisobutyrate	NIOSH	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000057-55-6	1,2-Propylene glycol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000115-86-6	Triphenyl phosphate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0003194-55-6	Hexabromocyclododecane	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007631-86-9	Silica, amorphous	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0007632-00-0	Nitrous acid, sodium salt	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0013463-67-7	Titanium dioxide	OSHA	Select Carcinogen: Yes
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No;
0021645-51-2	Aluminum hydroxide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0025265-77-4	2,2,4-Trimethylpentane-1,3-diol monoisobutyrate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

Respiratory

Select equipment to provide protection from the ingredients listed in Section 3 of this document. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates dust, vapor, or mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. FOR USERS OF 3M RESPIRATORY PROTECTION ONLY: For information and assistance on 3M occupational health and safety products, call OH&ESD Technical Service toll free in U.S.A. 1-800-243-4630, in Canada call 1-800-267-4414. Please do not contact these numbers regarding other manufacturer's respiratory protection products. 3M does not endorse the accuracy of the information contained in this Material Safety Data Sheet.

Eyes

Avoid contact with eyes. Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 3 of this document. Depending on the site-specific conditions of use, safety glasses, chemical goggles, and/or head and face protection may be required to prevent contact. The equipment

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	must be thoroughly cleaned, or discarded after each use.
Skin	Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 3 of this document. Depending on the site-specific conditions of use, protective gloves, apron, boots, head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discarded after each use.
Engineering Controls	Depending on the site-specific conditions of use, provide adequate ventilation.
Other Work Practices	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, using toilet facilities, etc. Promptly remove soiled clothing and wash clothing thoroughly before reuse. Shower after work using plenty of soap and water.

9. Physical and chemical properties

Appearance	Coloured Liquid
Odour threshold	Not Measured
pH	No Established Limit
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	100 (C) 212 (F)
Flash Point	No Established Limit (C) No Established Limit(F)
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: .62 Upper Explosive Limit: No Established Limit
vapor pressure (Pa)	Not Measured
Vapor Density	Heavier than air
Specific Gravity	1.31
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	No Established Limit
VOC %	Refer to the Technical Data Sheet or label where information is available.

9.2. Other information
No further information

10. Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

This product is stable and hazardous polymerization will not occur. Not sensitive to mechanical impact. Excessive heat and fumes generation can occur if improperly handled.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Material may burn but does not ignite readily. Fire may produce irritating, corrosive and/or toxic gases. Containers may explode when heated.

11. Toxicological information

Acute toxicity

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NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr
Titanium dioxide – (13463–67–7)	10,000.00, Rat – Category: NA	10,000.00, Rabbit – Category: NA	No data available
Aluminum hydroxide – (21645–51–2)	5,000.00, Rat – Category: 5	No data available	No data available
1,2–Propylene glycol – (57–55–6)	20,000.00, Rat – Category: NA	20,800.00, Rabbit – Category: NA	105.00, Rat – Category: NA
Hexabromocyclododecane – (3194–55–6)	No data available	No data available	No data available
2,2,4–Trimethylpentane–1,3–diol monoisobutyrate – (25265–77–4)	3,200.00, Rat – Category: 5	15,200.00, Rabbit – Category: NA	No data available
Silica, amorphous – (7631–86–9)	5,110.00, Rat – Category: NA	5,000.00, Rabbit – Category: 5	No data available
Triphenyl phosphate – (115–86–6)	3,500.00, Rat – Category: 5	7,900.00, Rabbit – Category: NA	No data available
Nitrous acid, sodium salt – (7632–00–0)	180.00, Rat – Category: 3	No data available	No data available

Item	Category	Hazard
Acute Toxicity (mouth)	Not Classified	Not Applicable
Acute Toxicity (skin)	Not Classified	Not Applicable
Acute Toxicity (inhalation)	Not Classified	Not Applicable
Skin corrosion/irritation	Not Classified	Not Applicable
Eye damage/irritation	Not Classified	Not Applicable
Sensitization (respiratory)	Not Classified	Not Applicable
Sensitization (skin)	Not Classified	Not Applicable
Germ toxicity	Not Classified	Not Applicable
Carcinogenicity	Not Classified	Not Applicable
Reproductive Toxicity	Not Classified	Not Applicable
Specific target organ systemic toxicity (single exposure)	Not Classified	Not Applicable
Specific target organ systemic Toxicity (repeated exposure)	Not Classified	Not Applicable
Aspiration hazard	Not Classified	Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Titanium dioxide – (13463–67–7)	1,000.00, Fundulus heteroclitus	5.50, Daphnia magna	5.83 (72 hr), Pseudokirchneriella subcapitata
Aluminum hydroxide – (21645–51–2)	Not Available	Not Available	Not Available
1,2–Propylene glycol – (57–55–6)	710.00, Pimephales promelas	10,000.00, Daphnia magna	Not Available
Hexabromocyclododecane – (3194–55–6)	Not Available	Not Available	Not Available

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2,2,4-Trimethylpentane-1,3-diol monoisobutyrate – (25265-77-4)	30.00, Pimephales promelas	95.00, Daphnia magna	18.40 (72 hr), Selenastrum capricornutum
Silica, amorphous – (7631-86-9)	10,000.00, Danio rerio	10,000.00, Daphnia magna	10,000.00 (72 hr), Scenedesmus subspicatus
Triphenyl phosphate – (115-86-6)	0.225, Oncorhynchus mykiss	1.00, Daphnia magna	2.00 (96 hr), Pseudokirchneriella subcapitata
Nitrous acid, sodium salt – (7632-00-0)	0.11, Oncorhynchus mykiss	12.50, Daphnia magna	159.00 (72 hr), Tetraselmis chuii

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available

13. Disposal considerations

13.1. Waste treatment methods

Do not allow spills to enter drains or watercourses.

Dispose of in accordance with local, state and federal regulations. (Also reference RCRA information in Section 15 if listed).

14. Transport information

14.1. UN number Not Regulated

14.2. UN proper shipping name Not Regulated

14.3. Transport hazard class(es)

DOT (Domestic Surface Transportation)

DOT Proper Shipping Name Not Regulated

DOT Hazard Class Not Regulated

UN / NA Number Not Regulated

DOT Packing Group Not Regulated

CERCLA/DOT RQ 31 gal. / 333 lbs.

IMO / IMDG (Ocean Transportation)

IMDG Proper Shipping Name Not Regulated

IMDG Hazard Class Sub Class Not Regulated
Not applicable

IMDG Packing Group Not Regulated

System Reference Code 9

14.4. Packing group Not Regulated

14.5. Environmental hazards

IMDG Marine Pollutant: No

14.6. Special precautions for user

Not Applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

15. Regulatory information

Regulatory Overview

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed

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on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

WHMIS Classification Not Regulated

DOT Marine Pollutants (10%):

(No Product Ingredients Listed)

DOT Severe Marine Pollutants (1%):

(No Product Ingredients Listed)

EPCRA 311/312 Chemicals and RQs (>.1%) :

Nitrous acid, sodium salt (100 lb final RQ; 45.4 kg final RQ)

EPCRA 302 Extremely Hazardous (>.1%) :

(No Product Ingredients Listed)

EPCRA 313 Toxic Chemicals (>.1%) :

3-Iodo-2-propynyl butylcarbamate

Nitrous acid, sodium salt

Mass RTK Substances (>1%) :

Silica, amorphous

Titanium dioxide

Penn RTK Substances (>1%) :

1,2-Propylene glycol

Silica, amorphous

Titanium dioxide

Penn Special Hazardous Substances (>.01%) :

(No Product Ingredients Listed)

RCRA Status:

(No Product Ingredients Listed)

N.J. RTK Substances (>1%) :

1,2-Propylene glycol

Silica, amorphous

Titanium dioxide

N.J. Special Hazardous Substances (>.01%) :

(No Product Ingredients Listed)

Ammonia

Ammonium hydroxide

Dimethyl sulfoxide

Quartz

Silica, cristobalite

N.J. Env. Hazardous Substances (>.1%) :

3-Iodo-2-propynyl butylcarbamate

Nitrous acid, sodium salt

Proposition 65 – Carcinogens (>0%):

1,4-Dioxane

Acetaldehyde

Benzene, (chloromethyl)-

Carbon black

Ethylene oxide

Quartz

Titanium dioxide

Proposition 65 – Female Repro Toxins (>0%):

Ethylene oxide

Proposition 65 – Male Repro Toxins (>0%):

Ethylene oxide

Proposition 65 – Developmental Toxins (>0%):

Ethylene oxide

16. Other information

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The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H272 May intensify fire; oxidizer.

H301 Toxic if swallowed.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

This is the first revision of this SDS format, changes from previous revision not applicable.

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